

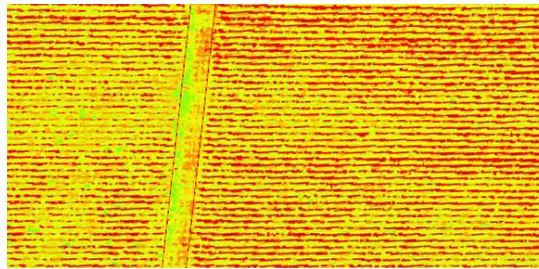
Multispectral Camera Specification Sheet

The best sensors for every agricultural application

RedEdge-MX



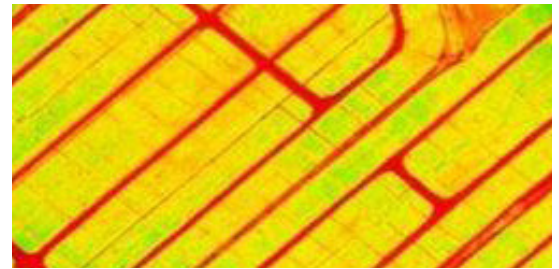
A great solution for multispectral imagery. Generate plant health indices and RGB images in a single flight!



Altum



The revolutionary 3 in 1 camera empowers professional users to capture advanced thermal, multispectral and RGB imagery at the same time.



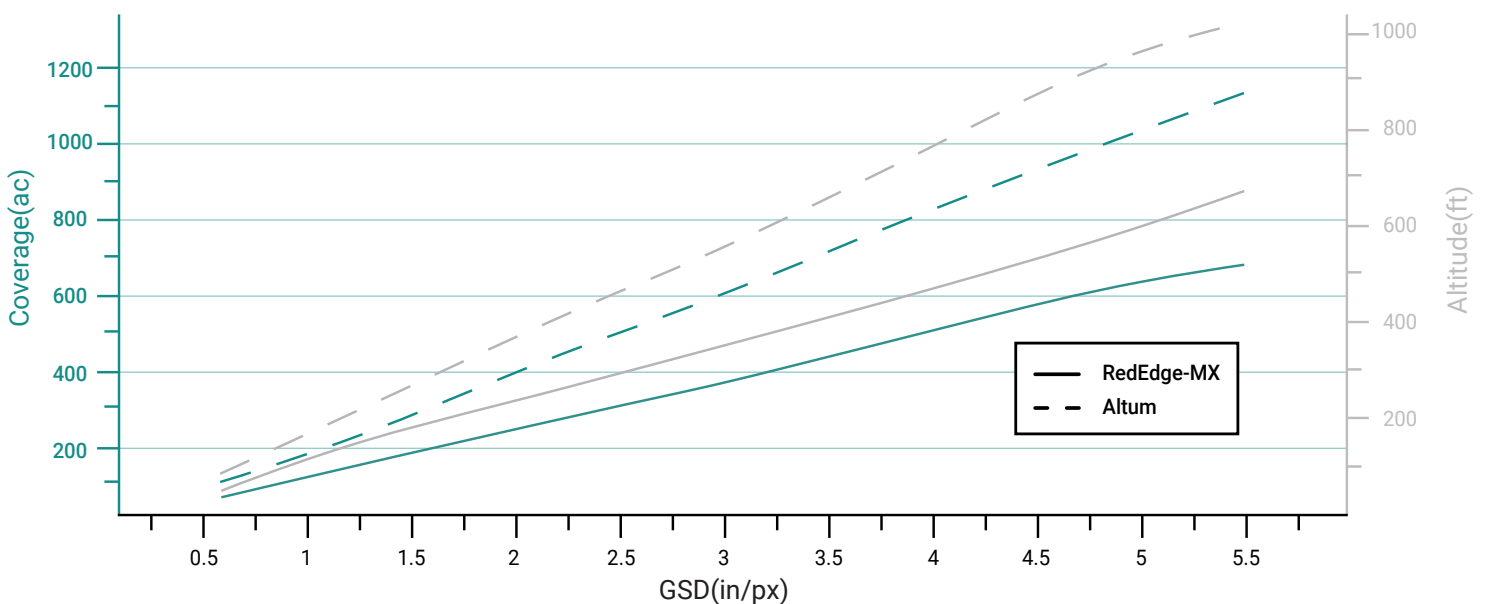
Details

		Multispectral	Thermal
Sensor layout	5 individual sensors	5 individual sensors	FLIR LWIR
Spectral bands	RGB, Red Edge, Near-IR	RGB, Red Edge, Near-IR	8-14 μm
Sensor size	0.2 x 0.1 in	0.3 x 0.2 in	0.07 x 0.06 in
Pixel pitch	3.75 μm	4.25 μm	
Pixel count	5 x 1.2 MP	5 x 3.2 MP	
Pixels array	1280 x 960 px	2064 x 1544 px	160 x 120 px
Shutter type	Global shutter	Global shutter	
Weight	8.18 oz (incl. SD card)	14.34 oz (incl. SD card)	
Focal length of lens	0.2 in	0.3 in	0.1 in
Trigger frequency at full resolution	1 Hz	1 Hz	1 Hz

Results

Lowest achievable GSD	2.36 in/px	1.45 in/px	22.6 in/px
Flight altitude	283 ft	280 ft	
Frontal overlap	70%	70%	
Max coverage	299 ac	298 ac	
GSD at 3 in/px	3 in/px	3 in/px	46.6 in/px
Flight altitude	361 ft	577 ft	
Frontal overlap	77%	86%	
Max coverage	380 ac	613 ac	

GSD at 4 in/px		4 in/px	4 in/px	62 in/px
Flight altitude		480 ft		771 ft
Frontal overlap		83%		89%
Max coverage		506 ac		817 ac
GSD at 5 in/px		5 in/px	5 in/px	77 in/px
Flight altitude		600 ft		965 ft
Frontal overlap		86%		91%
Max coverage		633 ac		1021 ac
Flight altitude at 300 ft		300 ft	300 ft	
GSD		2.5 in/px	1.6 in/px	24 in/px
Frontal overlap		72%	72%	
Max coverage		316 ac	319 ac	
Flight altitude at 400 ft		400 ft	400 ft	
GSD		3.3 in/px	2.1 in/px	32 in/px
Frontal overlap		79%	79%	
Max coverage		422 ac	425 ac	
Flight altitude at 500 ft		500 ft	500 ft	
GSD		4.2 in/px	2.6 in/px	40 in/px
Frontal overlap		83%	83%	
Max coverage		527 ac	531 ac	



Results depend upon environmental conditions